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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/710,487	11/10/2000	John Josef Hench	1340P082	5334	
	7590 06/18/2002					
	Archana B. V	ittal	EXAMINER			
	BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			TRAN, THIEN D		
				ART UNIT	PAPER NUMBER	
				2665		
			DATE MAILED: 06/18/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

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į.		Applicati	on No.	pplicant(s)					
			87	HENCH ET AL.					
	Office Action Summary	Examine	7	Art Unit					
		Thien D T	ran	2665	r				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)⊠	Responsive to communication(s) filed of	on <u>08 May 2002</u> .							
2a)⊠	This action is FINAL . 2b)[☐ This action is	non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
· _	Claim(s) 1-41 is/are pending in the appl	lication.							
•	4a) Of the above claim(s) is/are w		nsideration.						
	Claim(s) is/are allowed.		÷						
6)	Claim(s) <u>1-41</u> is/are rejected.								
· <u> </u>	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restriction	and/or election r	equirement.						
Application	on Papers								
9) 🗌 🗆	The specification is objected to by the Ex	aminer.							
10)□ 7	he drawing(s) filed on is/are: a)	accepted or b)	objected to by the Exam	miner.					
	Applicant may not request that any objection		•		,				
11) 🔲 7	he proposed drawing correction filed on	is: a) a	pproved b)⊡ disappro	ved by the Examiner.	,				
_	If approved, corrected drawings are require	- -	ffice action.		-				
12)[_] 7	he oath or declaration is objected to by	the Examiner.							
Priority u	nder 35 U.S.C. §§ 119 and 120								
13)	Acknowledgment is made of a claim for	foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).	ţ				
a)[☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) 🗌 A	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
	 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 								
Attachment(s)									
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449) Paper			(PTO-413) Paper No(s). Patent Application (PTO-1					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-41 are rejected under 35 U.S.C. 102(e) as being participated by Gaikwad et al (U.S Patent No 6317,495 B1).

Regarding claim 1, Gaikwad discloses a method for the determination (prediction) and optimization of a communications system comprising:

inputting data from a plurality of channels of the communications system;

determining (predicting) a performance of at least one of the plurality of channels
using a plurality of parameters to characterize the performance of the channel; and

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optimizing the channel transfer function such as function of frequency, signal strength, phase shift, function of transmit spectrum...etc (parameters) of at least one of the plurality of channels in order to improve a bit rate of the at least one of the plurality of channels in the communications system. See col.16 lines 50-65, col.17 line 45, figures 9-14.

Regarding claims 13, Gaikwad discloses asystem for the prediction and optimization of a communications system comprising:

a determination module (prediction module), wherein the determination module determines (predicts) the performance of at least one channel in the communications system by providing a characterization of at least one parameter that describes the channel;

and an optimization module, wherein the optimization module finds the optimum characterization for the channel based on at least one design criteria. See figures 14, 15, 27, col.21 and 22.

Regarding claim 20, Gaikwad discloses a method for the prediction of the performance of a communications system comprising:

inputting data from at least one channel of the communication system into a prediction module (col.15 lines 10-15);

creating at least one transfer function model of the at least one channel; determining an impairment on the at least one channel (col.16 lines 40-60, figure 9); characterizing the at least one channel using the at least one transfer function

model and the impairment. See col.16 and 17.

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Regarding claim 30, Gaikwad discloses a method for the prediction and optimization of a communications system comprising:

inputting data from at least one channel of the communications system;

predicting a performance of at least one of the channels using at least one
parameter to characterize the performance of the channel; and

optimizing at least one parameter of at least one of the channels in order to improve a bit rate of the at least one of the channels in the communications system. See col.17 lines 40-55.

Regarding claims 2, 31, Gaikwad discloses the determining the performance of the at least one of the plurality of channels comprises:

inputting data from at least one channel of the communications system into a prediction module;

creating at least one transfer function model of the at least one channel; determining an impairment on the at least one channel;

characterizing at least one channel using the at least one transfer function model and the impairment. See figure.9

Regarding claims 3, 21, 32, Gaikwad discloses that at least one transfer function model is created using physical configuration information of the communications system. See col.18 lines 45-65.

Regarding claims 4, 22, 33, Gaikwad discloses that at least one transfer function model is created using a spectrum management system. See col.19 lines 10-25.

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Regarding claims 5, 23, 34, Gaikwad discloses that at least one transfer function model is created by measuring the transfer function from the communications system.

See col. 20 lines 10-25.

Regarding claims 6, 14, 24, 35, Gaikwad discloses that the impairment is selected from the group consisting of: a cross-talk impairment, an AM radio interference, a temperature impairment, and any combination thereof. See col.9 lines 5-35.

Regarding claims 7, 36, Gaikwad discloses the optimizing the parameters comprises: a) choosing a first parameter for the channel;

- b) choosing a second parameter for the channel;
- c) determining an optimization criteria for the channel based upon the first parameter and the second parameter;
- d) repeating a) c) until the optimization criteria is optimized for the communications system. See figures 10-14.

Regarding claims 8, 15, 25, 37, Gaikwad discloses that the communications system is a wireline communications system. See col.14 lines 50-60.

Regarding claims 9, 16, 26, 38, Gaikwad discloses that the communications system is a wireless communications system. See col.14 lines 50-60.

Regarding claims 10, 17, 27, 39, Gaikwad discloses that the communications system is an optical communications system. See col.14 lines 50-60.

Regarding claims 11, 18, 28, 40, Gaikwad discloses that the communications system is a cable communications system. See col.14 lines 50-60.

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Regarding claims 12, 19, 29, 41, Gaikwad discloses that the communications system is a DSL communications system. See col.14 lines 45-60.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

4. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (703) 308-4388. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (703) 308-6602. Any inquiry of a general nature

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of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Thien Tran

Alpus H. HSU
PRIMARY EXAMINER